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APPLICATION NO.	Fl	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,638	7/712,638 11/13/2003		Mallinath Hatti	15229US02	8978
23446	7590	06/15/2006	EXAMINER		
		LD & MALLOY,	LEE, MICHAEL		
500 WEST N SUITE 3400		SIREEI	ART UNIT	PAPER NUMBER	
CHICAGO,	IL 6066	I	2622		

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/712,638	HATTI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		M. Lee	2622			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
2a)	Responsive to communication(s) filed on <u>13 Not</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-18</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>16-18</u> is/are allowed. Claim(s) <u>1-15</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Inform	t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  r No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:				

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 2. Claims 1-12 is rejected under 35 U.S.C. 102(b) as being anticipated by Canfield (5,790,197).

Regarding claim 1, Canfield shows a decoding step (14), and an interpolating step (20). (See Figures 11-17 for different coefficient factors or weights (K) for different display formats.)

Regarding claim 2, see col. 2, lines 65-67.

Regarding claim 3, see col. 1, lines 13-18.

Regarding claim 4, Canfield shows a receiving step (output from MUX 30), an interpolating step (1-H delay 33 and proportion and combine circuit 34).

Regarding claim 5, Canfield repeats the receiving step and the interpolating step for every row of chroma signals.

Regarding claims 6 and 7, Canfield repeats the above receiving and interpolating steps above for each of the chroma signals (Cr and Cb) in every row.

Regarding claim 8, Canfield shows a video decoder (14), a chroma filter (20), and a line address computer (37). The controller provides different coefficient factors or weights (K) for different formats (see Figures 11-17).

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Regarding claim 9, see rejection to claim 2.

Regarding claim 10, see rejection to claim 3.

Regarding claim 11, Canfield shows a chroma line buffer (33, 34, and Figures 3 and 4), which further includes a first multiplier (1-K), a second multiplier (K), and an adder (combiner).

Regarding claim 12, see col. 4, lines 22-32.

## Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 13-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 13, "the interpolated row of chroma Cb pixels" lacks proper antecedent basis.

### Allowable Subject Matter

- 5. Claims 16-18 are allowed.
- 6. Claims 13-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kori et al. (5,914,754) shows a chroma interpolator 22.

Huang (5,650,824) shows a chroma up converter.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Lee whose telephone number 571-272-7349. The examiner can normally be reached on Monday through Thursday from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz, can be reached on 571-272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Lee Primary Examiner Art Unit 2622 Page 4